

**National Chemistry
Week
October 22-28, 2017**



See articles on pages 8, 14, 26-28.

THIS MONTH IN CHEMICAL HISTORY

Harold Goldwhite, California State University, Los Angeles • hgoldwh@calstatela.edu

I have begun a series of columns about distinguished chemists who happened to be female. I am drawing on the resources in "Women in Chemistry and Physics: A Biobibliographic Sourcebook", L.S.Grinstein, R.K.Rose, and M.H. Rafailovich, eds. Greenwood Press, 1993. My subject for this column is Pauline Beery Mack. Pauline Beery was born in Missouri in December 1891. Her career entitles her to many descriptors: chemist; teacher; nutritionist; editor; administrator; etc.

She did her undergraduate work at Missouri State University where she had her first taste of research. She majored in chemistry and minored in biology for her A.B. For 6 years after graduating she was a high school science teacher and chair of science at several Missouri high schools. She resumed research at Columbia University earning an A.M.in 1919. She then taught chemistry at Pennsylvania State University for 15 years. She met Warren Mack, a horticulturist and printmaker, and they married in 1923. While at Penn State Mack began actively to promote science education for youngsters. She founded a new science magazine, Chemistry Leaflet, for that audience in 1927 and edited it for 17 years. She also authored a laboratory manual for general chemistry and an article supporting the use of the Journal of Chemical Education in the classroom. Meanwhile she earned a Ph.D. in 1932 from Penn State for work on effects of radiation on bone formation and growth. She began to direct graduate students in topics ranging from human nutrition to fabric treatments. This led to the founding of an institute: Pennsylvania Mass Studies in Human Nutrition, which she directed for the next 17 years. At its start the institute had only a few people involved in its studies; by 1950 its personnel numbered over 60.

At the institute some of her most significant early researches were in bone development and bone density in human subjects. She set up a study involving 100 families in each of two different environments: one urban, and one rural. The measurements on the family members were made in part by X-ray studies (known at the time as roentgenograms). Her group also monitored diets of the two groups and hemoglobin levels. In 1942 she and her colleagues, concerned about appropriate nutrition in wartime, published a widely distributed pamphlet "Family Nutrition", which included discussions of balanced diets, the dietary values of foods, and fitness.

In 1949 Mack and her colleagues finally described a standardized method of measuring bone density in humans based on simultaneous X-ray measurements of a calibrated standard and human bone in situ. This work brought her to the attention of NASA in Houston, which was becoming interested in the process of demineralization of astronaut's bones during prolonged space missions. Mack's first studies were on the crew of Gemini IV and were controlled by studies of healthy young people on bed rest for the same period as the Gemini crew. Both groups lost bone mass, but the astronaut's loss was greater. Mack began to develop diets that might be appropriate for astronauts in space, testing her work on macaws. She also developed exercise regimes that could slow muscle atrophy in space.

Back at the institute she continued a program on fabrics, testing various methods of stain removal; the fading of dyes; effects of both laundering and dry-cleaning; and new metal oxide finishes.

Mack's career was marked by many advancements and honors. In 1962 she joined the faculty of Texas Woman's University in Denton as Dean of the College of Household Arts and Science, and Director of the university's Research Institute. In 1970 she was the first woman to receive a "Silver Snoopy" from the American Astronauts. She was recognized by the Distinguished Daughters of Pennsylvania by their most prestigious medal; she was awarded a number of honorary degrees; and in 1950 the ACS awarded her the Garvan Medal for her work on calcium chemistry in bone development.. Pauline Beery Mack died in Texas in 1974. She was truly an exceptional scientist.

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Address advertising correspondence to Advertising Manager. Other correspondence to the Editor.

October Calendar

NEW YORK SECTION

Thursday, October 5, 2017

Long Island Subection
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Thursday, October 5, 2017

Chemical Marketing and Economics Group
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Tuesday, October 10, 2017

Westchester Chemical Society
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Friday, October 13, 2017

New York Nanoscience Discussion Group
See pages 15 and 29.

Saturday, October 14, 2017

National Chemistry Week - Chemistry
Rocks
See page 14.

Tuesday, October 17, 2017

New York Nanoscience Discussion Group
See pages 15 and 29

Wednesday, October 25, 2017

NY/NJ Society for Applied Spectroscopy
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Friday, October 27, 2017

Inorganic and Organometallic Symposium
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Friday, October 27, 2017

ION Poster Sesssion
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also

Friday, November 3, 2017, and

Tuesdays, January 30 and June 19, 2018
New York Nanoscience Discussion Group
See pages 15 and 29.

Wednesday, November 8; Monday, November 13; Friday, December 1, 2017, and TBD, 2018

NY/NJ Society for Applied Spectroscopy
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Wednesday, November 8; Thursday, November 16l and Tuesday, December 5, 2017

Westchester Chemical Society
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NORTH JERSEY SECTION

Thursday, October 12, 2017

Drug Metabolism Discussion Group
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Monday, October 16, 2017

North Jersey Executive Committee Meeting
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Thursday, October 19, 2017

NMR Topical Group
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National Chemistry Week - Chemistry
Rocks
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Wednesday, October 25, 2017

NY/NJ Society for Applied Spectroscopy
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also

Wednesday, November 8; Monday, November 13; Friday, December 1, 2017, and TBD, 2018

NY/NJ Society for Applied Spectroscopy
See page 9.

Friday, December 8, 2017

Baekeland Symposium and Award
Celebration
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The Indicator is posted to the web around the
15th of the previous month at

www.TheIndicator.org

Deadline for items to be included in the
November 2017 issue of *The Indicator* is

September 28, 2017

North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meeting to discuss topics of importance to running the section and representing the membership. **All ACS members are welcome** to attend this meeting and to become more involved in section activities.

Date: Monday, October 16, 2017

Time: 6:30 PM

Place: Location TBD & Teleconference
(See www.njacs.org for details)



CAREERS IN TRANSITION MEETINGS

There will be no Careers in Transition Meetings until further notice.



NJACS PARTNERS WITH STUDENTS2SCIENCE

In anticipation of opening its sister site in Newark, NJ, Students 2 Science (S2S) has made two additions to its program staff – Allen Jones and Cierra Green. The two will soon implement and manage S2S's ISAAC and V-Lab programs at the S2S Newark Technology Center, opening this fall.



Allen Jones earned his B.S. degree in Chemistry from Elizabethtown College in Elizabethtown, PA, and his PhD in Medicinal Chemistry from SUNY-Buffalo in

Buffalo, New York under Professor Wayne K. Anderson. His professional career includes working for the Veterans Administration, where he performed Nuclear Medicine Research, the pharmaceutical industry (Merck Labeled Compounds and Roche Pre-Clinical Drug Metabolism), and

was an adjunct professor in Chemistry at Rowan University. Recently, he worked for a contract research lab (Alliance Technologies) and a tech start-up (Liquid Light). He has been Chair of the North Jersey Drug Metabolism Discussion Group, the North Jersey Mass Spec Discussion Group, and continues to serve on the Boards of these topical groups. He is a Councilor for the Princeton Section of the American Chemical Society (ACS), and a volunteer Career Consultant for the ACS. After volunteering for a number of years at S2S as a mentor and instructor, he is now a new addition to the ISAAC program as Program Director for the Newark site.



Cierra Green earned her B.A. in Chemistry from the University of Delaware, and is a PhD candidate at Seton Hall University, under Pro-

fessor Nicholas Snow. Her professional career includes working in toxicology at Laboratory Corporation and the Regional State Medical Examiner office. She was a chemistry teacher at Bard High School (Newark) and is an adjunct professor of Chemistry at Essex County College and New Jersey City University. Cierra will be the V-Lab Senior Manager of the S2S Newark Technology Center.

S2S, in partnership with Connectivity, Inc., and in collaboration with the American Chemical Society, developed a fully interactive, web-based, hybrid, distance-based learning program to support elementary, middle and high school science curricula.

The V-Lab program uses Connectivity's proprietary communications platform to enable students (grades 5-12) in their classrooms or non-traditional settings, and the S2S Technology Center, to simultaneously conduct a series of supplemental, age-appropriate, hands-on science experiments

S2S not only welcomes Allen and Cierra, but commends them for their passion for encouraging and educating the next generation of STEM leaders, and for their unyielding and long-term commitment to supporting the mission of S2S. To learn more about S2S, visit their web site at www.students2science.org or call (973) 947-4880 ext. 516.

NoJ DRUG METABOLISM DISCUSSION GROUP

2017 Fall Symposium and Vendor Exhibition –

“Mechanistic Framework for Predicting ADME/DDIs in Drug Discovery”

Program

8:00 AM	Registration / Continental Breakfast / Vendor Exhibit
9:00 AM	Introductory Remarks Manthena Varma, Chair, NJ DMDG
9:10 AM	Systems Pharmacokinetics Approach in Tissue Targeting via Transporters Tristan Maurer, Pfizer, Cambridge, MA.
10:00 AM	Recommendations on Preclinical and Clinical Drug Interaction Studies: Experiments, Predictions and Regulatory Guidance Vikram Sinha, Merck & Co. Inc, Pennsylvania (Previously US FDA)
10:45 AM	Vendor Exhibit & Coffee Break
11:30 PM	Rationalizing Complex DDIs and role of metabolites Nina Isoherranen, University of Washington, Seattle.
12:15 PM	Lunch & Vendor Exhibit
1:45 PM	Application of a PK-PD Modeling and Simulation-Based Strategy for Clinical Translation of Antibody-Drug Conjugates Dhaval K Shah, University at Buffalo, The State University of New York at Buffalo, Buffalo, NY.
2:30 PM	Vendor Exhibit & Coffee Break
3:00 PM	Title to be decided F. Peter Guengerich, Vanderbilt University School of Medicine, Nashville, Tennessee
3:45 PM	Program Closure

Date: Thursday, October 12, 2017

Times: 8:00 AM – 3:45 PM

Place: The Palace at Somerset Park

Registration:

Pre-registration fee is \$125 (pre-register by October 7, 2017).

Registration fee at the door is \$150 (Checks only)

Registration fee for students and postdocs is \$10 and \$50 for faculty

Registration is free for unemployed

Please plan to pre-register as a group, as coordinated by a member of the NJACS DMDG steering committee from your organization (see list).

If you have no DMDG member at your company, please contact Bo Wen

(bo.1.wen@gsk.com) for registration.

Payments by personal or company checks. Sorry, credit cards are not accepted.

Checks should be made payable to: **NJ Drug Metabolism Discussion Group.**

Please also visit our website: <http://www.njacs.org/topical-groups/drug-metabolism>

Exhibitors:

Please contact Anima Ghosal (ghosala@aol.com) for information concerning exhibits.



North Jersey ACS NMR Topical Group

in collaboration with

Princeton ACS Section

present

2017 NMR Symposium

October 19th, 2017

Princeton University

More details and registration available: <http://www.njacs.org/nmr-spectroscopy-topical-group>

Afternoon session (1 - 5:15 pm)

Warren Warren
Duke University

Alexej Jerschow
New York University

Ruth Stark
CUNY

Lyndon Emsley
EPFL, Lausanne

David Boehr
Penn State University

Dinner (5.15 – 6.45 pm)

*(Taylor Commons aka Frick Laboratory Atrium,
cost \$15, register for dinner through website in advance)*

Evening session (6.45 – 7.30 pm)

David Foley
Pfizer

We acknowledge the generous support of our sponsors:



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ChemExpo 2017

at Liberty Science Center

Saturday, October 21, 2017
10 a.m. - 2 p.m.



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Coordinated by the
North Jersey Section of the American Chemical Society



AMERICAN CHEMICAL SOCIETY

For further information go to www.njacs.org

or email mitachaki@gmail.com; monicasekharan@njacs.org

ACS PROGRAM IN A BOX

Chemistry Rocks! Exploring the Chemistry of Rocks

We are surrounded by rocks and minerals everywhere...in the ground we walk on, the places we work and live, and even in the food we eat. How are chemists experimenting with these fundamental materials to help the world and make our lives better? As a host you will gather a group for a live interactive broadcast where you and your attendees will have the opportunity to network with young chemists across the world on social media, participate in discussion and activities, and ask questions live to the

experts regarding the amazing work that is being done in rock and mineral science.

ACS Program-in-a-Box is the easiest event you'll ever host because "it's all in the box." With very little effort (acquire the space and gather the crowd), you can host an energetic science event that engages chemistry students and early career chemists.

Date: Tuesday, October 24, 2017

Time: 7:00 PM

Register now to receive a physical box of materials and resources delivered directly to you at no cost.* Sign up at www.acs.org/PIB.

**NEW YORK/NEW JERSEY
SOCIETY FOR APPLIED
SPECTROSCOPY**

CALENDAR 2017

“The Raman and IR Spectra of Companion Pets' Nutritional Supplements”

Speaker: Prof. Gene Hall

Date: Wednesday, September 27, 2017

Place: Rutgers University, Busch Campus

"Thinking Outside the Plain: 3-D Printing and Chemical Imaging"

Speaker: Emil Ciurczak

Date: Wednesday, October 25, 2017

Place: Fairleigh Dickinson University

“Why use the Norris Regression - the Derivative Quotient Math in Regression?”

Speaker: David Hopkins

Date: Wednesday, November 8, 2017

Place: Horiba

Eastern Analytical Symposium: Gold Medal Award to Prof. Richard Van Duyne

“Nanoscale Chemical Imaging with Tip-Enhanced Raman Spectroscopy”

Speaker: Prof. Richard Van Duyne

“Translating SERS into a Robust Detection Platform for Uranium in Complex Matrices”

Speaker: Amanda J. Haes
University of Iowa

“Polymer-Enabled Analytical SERS Sensing”

Speaker: Christy L. Haynes
University of Minnesota

“Imaging Mass Spectrometry on the Nanoscale with Cluster Ion Beams”

Speaker: Nicholas Winograd
Pennsylvania State University

Date: Monday, November 13, 2017

“Materials testing at the Met: What display, shipping, and storage materials should or shouldn't be near the art.”

Speaker: Eric Breitung

Date: Friday, December 1, 2017

Place: Metropolitan Museum of Art

CALENDAR 2018

“Vibrational spectroscopy applications understanding protein secondary structure or application in protein production using NIR”

Speaker: John Wasyluk

Date: to be determined

Place: BMS

For more information, visit our website at www.NYSAS.org.



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our editor by calling and saying you appreciate the quality and content of our newsletter. Our editor works hard to maintain a publication of interest to our membership. Oh, and by the way, you could also give credit to our advertisers who financially support us.

NORTH JERSEY CANDIDATES

The nomination committee announced the slate of officers and councilors for the 2018 North Jersey Section ACS election. The electronic ballot will be available September 18, 2017, through October 30, 2017.

Chair-elect

Amjad Ali (unopposed)

Secretary

Bettyann Howson (unopposed)

Councilor (Alternate Councilor)

Alan Cooper
Jackie Erickson
Jonathan Ho
Steve Silverman
Mohammed Elshaer
Amanda Mann
Tomeka Saxon



DR. WILLIAM R. DICHEL IS THE WINNER OF THE NORTH JERSEY ACS' 2017 BAEKELAND AWARD

Dr. Dichtel is the newly established Robert L. Lestsinger Professor of Chemistry at Northwestern University. His investigation and development of a new class of materials called Covalent Organic Frameworks (COFs) has defined our understanding of new polymerization methods and opened the door to a wide variety of future applications. Dichtel has studied COFs and other porous polymers in the context of conduct-

ing polymer/COF hybrids for batteries; porous polymers based on sugar derivatives to purify contaminated water and gas streams; and the functionalization of nano-materials for interfacing 2D materials to biological systems.

The Leo Hendrick Baekeland award was established to recognize and encourage youngscientists to emulate Leo Hendrick Baekeland's innovative and creative spirit. Baekeland awardees are leading research efforts that expand our knowledge of nature and contribute to future technologies that will enhance human lives.

The Baekeland Symposium will be held on **Friday December 8, 2017**. The location and agenda will be announced at a later time.



Dr. William R. Dichtel



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New York Meetings

www.newyorkacs.org

NEW YORK SECTION BOARD MEETING DATES FOR 2017

The dates for the Board Meetings of the ACS New York Section for 2017 have been selected and approved. The meetings are open to all – everybody is welcome. All non-board members who would like to attend any of the meetings should inform the New York Section office by emailing Mrs. Marilyn Jespersen at njesper1@optonline.net or by calling the Section office at (516) 883-7510.

All 2017 Board Meetings will be held at The Graduate Center, Science Center, Room 4102, 365 Fifth Avenue, New York, NY 10016, except for the January 21 Section-wide Conference and March 24 Nichols Symposium. Prof. Brian Gibney will chair all meetings. Refreshments will be available starting at 6:00 PM while the actual meeting will start at exactly 6:30 PM.

The board meetings dates for 2017 will be Friday, November 17, 2017

More information will be posted in future monthly issues of The Indicator and on the New York website at

<http://www.NewYorkACS.org>.



LONG ISLAND SUBSECTION

The Role of Ozone in the Formation and Structural Evolution of Graphene Oxide Obtained from Nanographite



Speakers: Dr. Michele Vittadello, *et al.*
Department of Chemistry and
Environmental Science
Medgar Evers College of CUNY
Brooklyn, NY

Chemical exfoliation of graphite under strong oxidizing conditions yields graphene oxide nanosheets with oxy functional groups on the carbon basal plane. The importance of ozone in the chemical oxidation mechanism of graphite by the widely-used Hummers' method has been largely overlooked. Here we demonstrate that the ozonolysis of graphite leads to the formation of secondary epoxy and peroxy monosulfate ester functional groups arising from a rotationally hindered Criegee intermediate and sulfuric acid, in a strongly favored thermodynamic process. This mechanistic step is followed by formation of adjacent epoxy and hydroxy groups as major functionalities on graphene oxides via a radical process, and leaves a significant amount of unreacted peroxides well above levels previously recognized. The thermal decomposition of graphene releases sulfur oxygen species (SO₂ and SO), but does not appear to release ozone even if this reaction pathway is moderately favored thermodynamically. We propose a new structural model for graphene oxide based on detailed chemical and spectroscopic data that provides insight into observed chemical reactivity and physical properties, including the antimicrobial activity and protein deactivation.

Date: Thursday, October 5, 2017

Time: 5:30 PM

Place: Queensborough Community
College, Science Building
Room S-112



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ECONOMIC OUTLOOK

CME ACS NY Luncheon/Webcast • October 5, 2017 • Penn Club

Abstract

- What will be the key economic factors to watch?
- What are the relative strengths of the chemical industry segments?

Dr. Kevin Swift will share his expert outlook on the major economic trends that will shape the North American chemical industry. He monitors the business of chemistry which is the building block for everything around us, supporting almost 25 percent of the US GDP. It is vital to continued expansion, job creation, and the return of a strong domestic manufacturing sector.

You are cordially invited to attend this important CME Luncheon and Live Webcast. Over the years Dr. Swift has provided us with an accurate, bird's-eye view of the evolving issues including the credit crisis, the impact of the energy and housing markets, and the opportunities for the chemical industry.

With the ever increasing geopolitical and economic challenges, we are looking forward to having Dr. Swift join us again in NYC to share his updated views on what the chemicals industry can expect in the coming year.

Biography



Dr. T. Kevin Swift is the Chief Economist at the American Chemistry Council (ACC) in Washington, DC, where he is responsible for economic and other analyses dealing with markets, raw materials, trade, tax, energy, and competition and innovation, as well as monitoring business conditions and identifying emerging trends for the domestic and global chemical sector. Prior to joining the ACC, Dr. Swift held executive and senior level positions at several business information/database companies. Dr. Swift started his career at Dow Chemical USA. Dr. Swift is currently vice president of the National Association for Business Economics (NABE) and is a member of NABE's panel of 40 professional forecasters and The Wall Street Journal Forecasters Survey panel. Dr. Swift received a doctorate in business administration from Anglia Polytechnic University. He also holds a BA degree from Ashland University and his MA degree in Economics from Case Western Reserve University. Dr. Swift is an adjunct professor of business economics at the University of Mary Washington.



Event Schedule

Location:
Penn Club
30 W 44th Street, NYC

Event Times: (ET)
11:15 am - 12:00 noon
Registration and
Networking
12 noon - 1 pm Luncheon
1 pm - 2 pm Talk - Webcast
Luncheon Fees
\$120 for non-members
\$90 for members
Check for Early-bird savings
Webcast : \$30. Free webcast
recording for ACS members

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December 5, 2017

www.cmeacs.org

NY NANOCIENCE DISCUSSION GROUP

(See pages 15 and 29 for details on meetings.)

WESTCHESTER CHEMICAL SOCIETY

Special Seminar – “R&D at Union Carbide Tarrytown Technical Center 1959 - 1990”

Speaker: Kenrick M. Lewis, PhD
Corporate Research Fellow
Momentive Performance
Materials
769 Old Saw Mill River Road
Tarrytown, NY

Abstract:

Situated on the site of the former Butler Farm in East View, NY, the Union Carbide Technical Center was a large diversified, campus-style research and office complex. At its peak in the mid-1980's, there were about two thousand employees, approximately half of whom were engaged in laboratory-related research and development. The Center was established in 1959 when Carbide-sponsored researchers at The Mellon Institute were relocated to Tarrytown. The first building was a Technical Service Laboratory (later called the Chemicals Building). In the period, 1961 – 1969, construction was completed of the Union Carbide Research Institute (Corporate Research Laboratory), Home and Automotive Products Laboratory, Silicones R&D Laboratory, Spine Building and Linde Laboratory.

These buildings and the Center's infrastructure and supportive technical managers provided an environment conducive to productive research by committed visionary scientists. Research activities in the different laboratories included work on cryogenics, superconductivity, metallurgy, welding, gas separations, molecular sieve synthesis and catalysis, silanes and silicones, vinyl resins, phosphorimetry, carbon clusters and flash vacuum pyrolysis. My presentation will highlight the research and scientific contributions of Edith Flanigen (Molecular Sieves), Lawrence Litz (Advanced Gas Reactors), Bernard Kanner (Silane Coupling Agents and Silicone Surfactants for Polyurethane Foams) and my collaboration with Donald McLeod in the discovery of methylchlorosilylene (CH₃SiCl) as the key intermediate in the Rochow-Müller Direct Synthesis of Methylchlorosilanes.

This talk is based on an invited lecture, “Golden Age of R&D at Union Carbide Corp Tarrytown Technical Center,” presented at

the Spring 2017 ACS National Meeting in San Francisco.

Biography:

Dr. Kenrick Martin Lewis is a Corporate Research Fellow with Momentive Performance Materials in Tarrytown, NY. He joined the Linde Research Dept. of Union Carbide in January, 1977 and has been at the Tarrytown Technical Center since then. Dr. Lewis's research interests encompass both process and materials chemistry. In process chemistry, he has contributed to the fundamental understanding and technological exploitation of the catalytic transformations of silicon and silicon compounds. These include direct syntheses of silanes from silicon, hydrosilylation and redistribution/disproportionation of organosilicon compounds. Use of nanosized materials in the catalyses is a particular emphasis. The materials chemistry interests are focused on structure-property relationships among siloxane-polyether copolymers, surface modification of polysiloxanes in medical, dental and urethane foam applications. He is co-editor of *Catalyzed Direct Reactions of Silicon* (Elsevier, 1993), author of forty-six technical publications, and inventor of twenty-six issued US patents.

Dr. Lewis was born in Grenada, West Indies, and completed his secondary education there. His degrees are from the University of Alberta (Edmonton), BS (first class honors in chemistry), and from the University of Massachusetts (Amherst), Ph.D. (Inorganic Chemistry). Dr. Lewis has been the recipient of many scholarships, prizes and awards from his studentship to the present time. These include the Latimer and Langmuir Awards at General Electric Co., Caribbean Icon of Science and Technology from the Caribbean Council for Science and Technology, and a Key Contributor to the 1999 Kirkpatrick Award for Innovation in the Direct Synthesis of Trimethoxysilane.

Date: Tuesday, October 10, 2017

Times: Refreshments – 5:30 PM

Lecture – 6:00 PM

Place: Westchester Community College
75 Grasslands Road
Valhalla, NY 10595

Gateway Building Room 110

Cost: Free and Opened to the Public

For further information: contact Paul Dillon

E-Mail PaulWDillon2@hotmail.com

Phone 1-914-393-6940



Help the New York Section of the American Chemical Society to celebrate National Chemistry Week 2017 with the theme

Chemistry Rocks!

- When:** Saturday, October 14, 2017 (11 AM – 4 PM)
Where: [New York Hall of Science \(NYSCI\)](#), Flushing, Queens
What: Over 20 tables of hands-on experiments, activities, demonstrations, and giveaways. Special photo opportunities.
Who: Last year, activities were presented by 250 volunteers and engaged more than 1,200 community youth and parents. Participants included some of the most prestigious colleges, universities and industries, and the Program received the esteemed American Chemical Society *Partners for Progress and Prosperity Award 2017!*

The New York Section needs your help to make this year's National Chemistry Week (NCW) Celebration another success! If you and your organization are interested in participating in or sponsoring an activity table at the event, please visit the New York Section's NCW website at: http://www.newyorkacs.org/meetings/NCW/2017_ncw.php. The site also links to **online registration, which is open till September 20, 2017.**

For more information about the NCW celebration in New York, please contact Dr. Ping Furlan (furlanp@usmma.edu), Dr. Scott Lefurgy (Scott.T.Lefurgy@hofstra.edu), or Mrs. Erin Wasserman (illustrated poem contest coordinator, ewasserman602z@gmail.com). We look forward to your participation and your organization's sponsorship as we celebrate the important roles chemistry plays in our everyday lives and how it can be FUN! Please include activities highlighting the yearly theme, "Chemistry Rocks!" Volunteers' parking at NYSCI is FREE.

You can also find additional information about NCW on the American Chemical Society's website at <https://www.acs.org/content/acs/en/education/outreach/ncw/about.html>.



New York Local Section, American Chemical Society, <http://www.newyorkacs.org/>

See also ACS PROGRAM-IN-A-BOX article at bottom of page 8.

NY NANOSCIENCE DISCUSSION GROUP

2017-2018 Sessions

Hosted by the New York University
Department of Chemistry

Speakers to be announced.

The NYNDG is an ACS Topical Group that meets in the New York University Department of Chemistry. Sessions feature three 30-minute presentations on nanoscience, one each with strong orientation in biology, chemistry, and physics/applied mathematics. Presentations will be focused on discussion of recent work, although speakers will place the work in a context understandable to a broad audience.

Mark your Calendars:

Dates: Friday, October 13, 2017
Tuesday, October 17, 2017
Friday, November 3, 2017
Tuesday, January 30, 2018
Tuesday, June 19, 2018

Times: Refreshments — 7:00 PM
Science — 7:30 PM

Place: New York University
Department of Chemistry
Silver Center, 31 Washington
Place (between Washington
Square East and Green Street)
Room 1003 (10th Floor)
New York, NY

(See also article on page 29.)

For more information, contact: James
Canary (james.canary@nyu.edu)

Topical Group History:

[http://www.nyu.edu/
projects/nanoscience](http://www.nyu.edu/projects/nanoscience)



NEW YORK/NEW JERSEY SOCIETY FOR APPLIED SPECTROSCOPY

CALENDAR 2017

“The Raman and IR Spectra of Companion Pets' Nutritional Supplements”

Speaker: Prof. Gene Hall

Date: Wednesday, September 27, 2017
Place: Rutgers Univeristy, Busch Campus

“Thinking Outside the Plain: 3-D
Printing and Chemical Imaging”

Speaker: Emil Ciurczak

Date: Wednesday, October 25, 2017

“Why use the Norris Regression - the
Derivative Quotient Math in
Regression?”

Speaker: David Hopkins

Date: Wednesday, November 8, 2017

Place: Horiba

**Eastern Analytical Symposium: Gold
Medal Award to Prof. Richard Van Duyne**

“Nanoscale Chemical Imaging with Tip-
Enhanced Raman Spectroscopy”

Speaker: Prof. Richard Van Duyne

“Translating SERS into a Robust
Detection Platform for Uranium in
Complex Matrices”

Speaker: Amanda J. Haes
University of Iowa

“Polymer-Enabled Analytical SERS
Sensing”

Speaker: Christy L. Haynes
University of Minnesota

“Imaging Mass Spectrometry on the
Nanoscale with Cluster Ion Beams”

Speaker: Nicholas Winograd
Pennsylvania State University

Date: Monday, November 13, 2017

“Materials testing at the Met: What display, shipping, and storage materials should or shouldn't be near the art.”

Speaker: Eric Breitung

Date: Friday, December 1, 2017

Place: Metropolitan Museum of Art

CALENDAR 2018

“Vibrational spectroscopy applications understanding protein secondary structure or application in protein production using NIR”

Speaker: John Wasylyk

Date: to be determined

Place: BMS

For more information, visit our website at
www.NYSAS.org

FRONTIERS OF INORGANIC AND ORGANOMETALLIC CHEMISTRY SYMPOSIUM

Please join us for the **Frontiers of Inorganic and Organometallic Chemistry Symposium**. The lecture symposium will feature several short research presentations by inorganic chemists of the NY ACS local section followed by a keynote lecture given by Prof. Cathy Murphy of University of Illinois at Urbana-Champaign.

Save the Date:

Date: Friday, October 27, 2017

Time: 1:30 PM

Place: Morningside Campus
Columbia University

Free registration will be available at newyorkacs.org in August.



ION (INORGANIC, ORGANOMETALLIC, NANO) POSTER SESSION SOCIAL

Graduate students and postdoctoral researchers are invited to present their recent research posters with local colleagues at the ION (Inorganic, Organometallic, Nano) Poster Session Social (immediately following the Frontiers of Inorganic and Organo-metallic Chemistry Symposium). Posters from 2017 National or Regional meetings are welcome! Submission details and free online registration will be available at newyorkacs.org in August.

Save the Date:

Date: Friday, October 27, 2017

Time: Immediately following the Frontiers of Inorganic and Organometallic Chemistry Symposium

Place: Morningside Campus
Columbia University

Contacts: Inorganic Topical Group co-chairs James Camara (camara@yu.edu) and Kathleen Kristian (kkristian@iona.edu)

EMPLOYMENT AND PROFESSIONAL RELATIONS COMMITTEE OF THE NEW YORK SECTION

To Human Resources Departments in Industry and Academia

The Employment and Professional Relations Committee maintains a roster of candidates who are ACS members seeking a position in the New York metropolitan area. If you have job openings and would like qualified candidates to contact you, please send a brief job description and educational/experience background required to hessytaft@hotmail.com.

Candidates from our roster who meet the requirements you describe will be asked to contact you.



WESTCHESTER CHEMICAL SOCIETY

FUTURE MEETINGS

Special Seminar – “Ligand-Guided Selection (LIGS): A SELEX Variant to Identify Specific Aptamers Against Cell-surface Markers”

Speaker: Prabodhika Mallikaratchy, PhD
Assistant Professor of Chemistry
New Science Hall
Office S-4404/Lab S-4401
City University of New York-
Lehman College
250 Bedford Park Blvd. West
Bronx, NY 10468

Abstract:

Nucleic Acid Aptamers (NAAs) are a class of molecules with significant potential in developing molecular tools in biomedical applications. Aptamers are selected using a screening method called Systematic Evolution Ligands by EXponential enrichment (SELEX). Recently, a number of SELEX approaches utilizing whole cells to evolve aptamers against cell-surface membrane proteins were introduced. To this end, we reported on a new variant of SELEX termed Ligand-Guided-Selection (LIGS) to identify highly specific aptamers against a predetermined epitope of a cell-surface target. Hallmark of LIGS is rooted in the ability to exploit the evolutionary selection step in

SELEX as a strategy to evolve highly specific aptamers. The iterative process in conventional SELEX is designed to outcompete low-affinity binders through a competitive process whereby high affinity binders move on through the selection process. By introducing a naturally occurring stronger, highly specific bivalent binder, for example, an antibody (Ab) interacting with its cognate epitope, LIGS out-competes specific aptamers from a partially enriched SELEX pool against cells expressing the same epitope. Utilizing LIGS we have selected aptamers against membrane bound IgM (mIgM) expressed on B-cells and Cluster of differentiation 3 (CD3) expressed on T-cells. Based on the detailed validation studies conducted using one of the aptamers selected using LIGS, we will show that aptamers identified using LIGS can be optimized into higher affinity variants. In addition, we will show that LIGS generated aptamers show similar specificities to that of the secondary ligand utilized to out-compete the aptamers. Presentation will conclude with a short discussion on ongoing projects aimed at selecting DNA aptamers against CD3 molecule expressed on human T-cells at physiological temperatures.

Biography:

Dr. Mallikaratchy obtained her undergraduate degree in chemistry from The Institute of Chemistry, Colombo, Sri Lanka in 2000, her M.S. in organic chemistry from the University of Louisiana, Monroe, LA in 2003, and her Ph.D in analytical biochemistry from the Center for Bio-Nano Interface, The University of Florida, Gainesville, FL in 2008. From 2008 to 2012, she was a research fellow at The Memorial Sloan-Kettering Cancer Center, in New York, NY. In 2012, she was appointed as Assistant Professor in the Department of Chemistry, PhD program in Chemistry and Biochemistry, at the Graduate Center of the City University of New York. There, she has worked to lay the groundwork to establish a new method for aptamer selection, resulting in a patent application and two peer-reviewed publications. Concurrently, she established her lab in the Department of Chemistry at Lehman College (CUNY). She has an extensive background in aptamer selection and manipulation of aptamers to develop molecular tools for disease detection and therapy. A number of aptamer selection methods have become available to select aptamers against cell-surface proteins; however, none of these methods has successfully identified

aptamers specific to an antigen of a cell-surface receptor at its endogenous level and native conformation. Such precise targeting of known proteins will determine the success of molecular tools used for disease detection and therapy. Therefore, to select aptamers against the predetermined site of a cell-surface receptor in its native state, her group, for the first time, introduced a simple method called Ligand-guided Selection (LIGS), the subject of the current talk. She has received several awards (the 2008 Crow Stasch Awards for excellence in publications, University of Florida Recipient, the 2009 Lauri Strauss Leukemia Research Fellow award, the 2010-12 Lymphoma Research Foundation Research Fellow award, and the 2017 Junior Faculty Research Award-runner-up at CUNY). She is also a member of several professional associations.

Date: Wednesday, November 8, 2017

Times, Place, Cost and Further Information:
See *October announcement on page 13.*

SPECIAL MEETING AND BREWERY TOUR

NovemberFest – The Science and Art of Brewing

Speaker: Kasey LaMothe
Head of Quality Control,
Head of Microbiology, and
Brewer
Broken Bow Brewery
173 Marbledale Avenue
Tuckahoe, NY 10707
(914) 268-0900

Date: Thursday, November 16, 2017

Times: Tasting Begins: 5:15 PM

Lecture and Tour: 5:30-7:00 PM

Place: Broken Bow Brewery (see above)

Open: To the public, but adults only.
Limited to 40 attendees.

Cost: \$30.00 per person (includes two beers)

For RSVPs and further information:

contact Paul Dillon

E-Mail PaulWDillon2@hotmail.com

Phone (914) 393-6940

(continued on page 18)

WESTCHESTER CHEMICAL SOCIETY

(continued from page 17)

FUTURE MEETINGS

Special Seminar – “FTIR Microscopy and Imaging – When You Need It and How To Use It”

Speaker: Linda Kidder Yarlott, PhD.
Product Manager – Molecular Spectroscopy
Shimadzu Scientific Instruments, Inc.
7102 Riverwood Drive
Columbia, MD 21046

FTIR Microscopy and Imaging – the Hows and Whys of “Seeing Infrared”

What do the FGM-148 Javelin anti-tank missile and laboratory-based FTIR imaging systems have in common? Both use infrared sensitive focal plane arrays – albeit with different goals in mind. The Javelin uses the IR detector (64 x 64 pixel MCT) to create thermal images of targets for “locking-on” purposes, and ultimate destruction of the intended target. Laboratory-based FTIR imaging systems have an entirely different goal, incorporating a wavelength filter (interferometer) to creates images based on IR functional groups that enable the spatial distribution of sample components to be characterized. I will explore various technologies that enabled the development of IR microscopy and imaging, from single point micro-spectroscopy to mapping and imaging. I will also discuss applications of spatially resolved IR spectroscopy, from materials characterization to pathology, as the ultimate value in developing novel analytical instrumentation is to add tools to our analytical toolbox.

Biography:

Dr. Linda Kidder graduated from Williams College with a B.A. in Chemistry and received her Ph.D. in physical chemistry from the Johns Hopkins University, where she was the recipient of the Sonneborn and Ernest Marks Fellowships. During her post-doc in the Laboratory of Chemical Physics at NIH, she developed a deep appreciation for molecular spectroscopy: developing, deploying, and characterizing Raman and Fourier transform infrared hyperspectral imaging systems. Since then, her career has focused on the development and commer-

cialization of novel analytical instrumentation: as co-founder of Spectral Dimensions, Senior Scientist at Malvern Instruments as part of the Bioscience Development Initiative, Vice President of Market Development at BrightSpec, and currently as Strategic Product Leader at Shimadzu Scientific Instrumentation. She is a long-standing member of the Society for Applied Spectroscopy, the Coblenz Society, and the American Chemical Society, and has contributed to ASTM on both E13.10 and E55 committees. She has also worked on outreach for vibrational spectroscopy, as program coordinator at the FACSS (now SciX) and EAS meetings, as well as organizing the SAS Tour Speakers program in 2011 and upcoming in 2018. In her “spare time” she and her husband are raising two active boys (11 and 9), and looking after a flock of pets including 2 Australian shepherds, 3 hamsters, a rabbit, a guinea pig and a parakeet.

Date: Tuesday, December 5, 2017

Times, Place, Cost and Further Information:
See October announcement on page 13.

Others

FALL 2017 SEMINAR SERIES AT NJIT

Dates: Mondays

Time: 2:45 PM

Place: Cullimore Lecture Hall 3
New Jersey Institute of Technology
University Heights, Newark, NJ

First Speaker: Professor Craig Arnold
Princeton University,
MAE and PRISM

Date: Monday, September 11, 2017

Seminar schedule:

<http://chemicaleng.njit.edu/news/seminars.php>

For more information contact the seminar coordinator, Dr. Gennady Gor (973) 596-2944, gor@njit.edu <http://chemicaleng.njit.edu/people/gor.php> Jebrown@infionline.net

THE NEW YORK CHEMISTRY STUDENT ACTIVITIES COMMITTEE

HIGHLIGHTS OF THE 2017 ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM (65th URS)

The Student Activities Committee of the New York Section of the American Chemical Society held its 65th Undergraduate Research Symposium (URS) on Saturday, May 6th, 2017, at Fordham University in Bronx, N.Y. A total of 134 presentations were made from undergraduates representing 27 different universities and colleges. There were 25 concurrent sessions in the areas of: Analytical Chemistry, Biochemistry, Green Chemistry, Inorganic Chemistry, Organic Chemistry, Nano- and Surface Chemistry, Physical Chemistry, and Polymer Chemistry. Opening remarks were given by URS Co-Chair Paul Sideris, Fordham University's Associate Vice President and Dean-Faculty of Arts and Sciences Dr. John P. Harrington, Chair of the Fordham Department of Chemistry Dr. Robert H. Beer, and the 2017 Chair of the New York Section of the American Chemical Society, Dr. Brian Gibney. URS Co-Chair Ipsita Banerjee introduced the keynote speaker, Dr. Jin K. Montclare from NYU Tandon School of Engineering. Dr. Montclare's keynote address was titled, "Intelligent Self-Assembling Biomaterials."

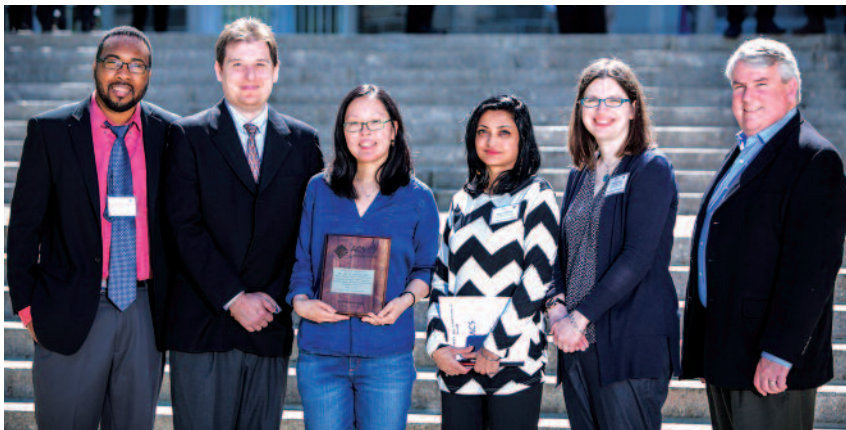
The abstract of the keynote address is reproduced below:

"Through centuries of evolution, nature has developed biopolymers capable of folding and assembling into discrete structures with a functional consequence. Inspired by this, our lab focuses on engineering "intelligent" protein materials with entirely new properties and function. In particular, our lab has fabricated protein-derived nanomaterials: helix-elastin block polymers and coiled-coil fibers. We investigate the fundamental self-assembly and molecular recognition capabilities of these systems. More importantly, we are able to harness these structure as well as others to interface with small molecule therapeutics, genes, cells and inorganic metals. Central to this work is the integration of stimuli-responsive domains through rational design."

After several questions from the audience, a group photo was taken on the staircase of the Keating Building. The students were then directed to their presentation rooms. After the student presentations, the attendees gathered for lunch. URS Co-Chairs Meredith Foley and Naphtali O'Connor distributed certificates and commemorative gifts to the students, moderators and sponsors. At the conclusion of the day, there was an ice cream social, during which a Kaplan-sponsored raffle drawing for a free MCAT or GRE course was held. The winning raffle ticket went to a student from Queensborough Community College – CUNY.

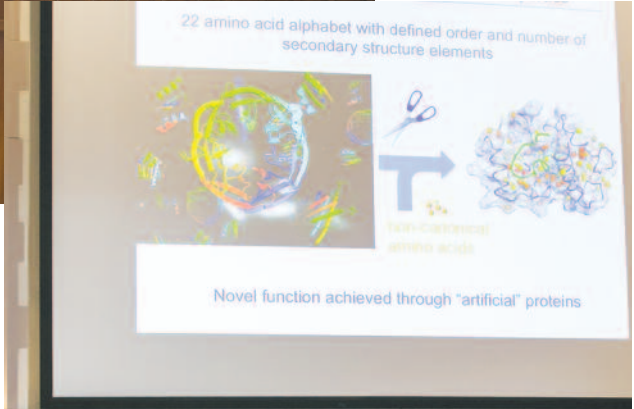
Pictures of the event can be seen at: <https://youtu.be/X6iDoMX5oN0>

All the photos were provided by Arpi Pap of Pap Studio. (*See next four pages*)



Left to right: Drs. Naphtali O'Connor, Paul Sideris, Jin K. Montclare, Ipsita Banerjee, Meredith Foley, and Brian Gibney.

KEYNOTE ADDRESS



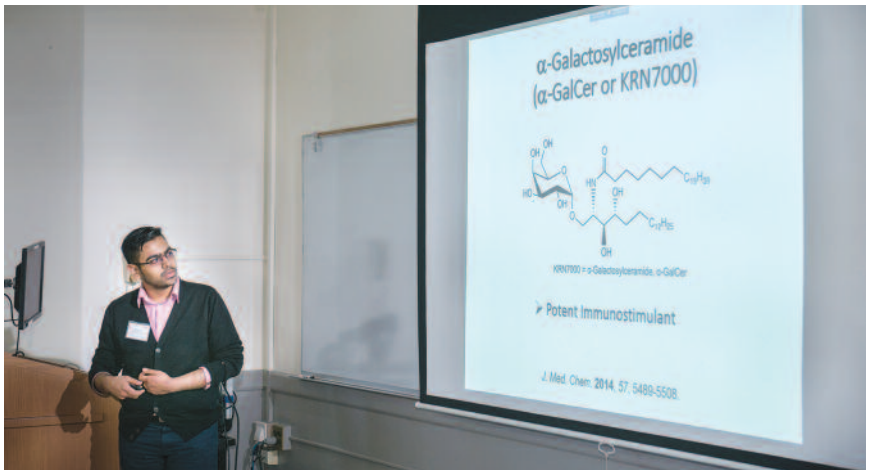
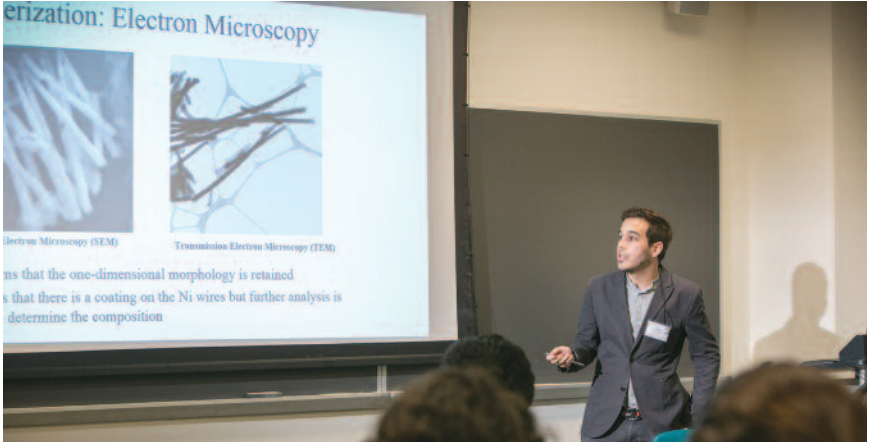
GROUP SHOT



LUNCH AND AWARDS CEREMONY



STUDENT HIGHLIGHTS



STUDENT HIGHLIGHTS



Call for Nominations

COMMITTEE ON THE HISTORY OF THE NEW YORK SECTION

Over the past twenty-three years the New York Section has participated in the designation of seven National Historic Chemical Landmarks and four New York Section Historic Chemical Landmarks. A brief description of these National and local section landmarks may be found on the NY Section Home Page at newyorkacs.org under the Committee on the History of the NY Section. These landmark programs recognize achievements in the chemical sciences and related areas, in order to enhance public appreciation for the contributions of the chemical sciences to modern life.

Please consider making a nomination for an historic chemical landmark. The Committee on the History of the NY Section will consider all nominations. In addition to a particular achievement, an historic library, building or association may be worthy of this distinction.

Please send your nomination, with supporting documentation, to the Chair of the Committee, Dr. Neil Jespersen, at jespersn@stjohns.edu



WESTCHESTER CHEMICAL SOCIETY DISTINGUISHED SCIENTIST AWARD 2018

The Westchester Chemical Society is accepting nominations for the "WCS Distinguished Scientist Award 2018". Scientists who live or work in Westchester or the Bronx qualify. The awardee is expected to attend the Awards Dinner (April/May timeframe) and to present aspects of his or her work. Self-nominations are acceptable. Nominations are not carried over from previous years. New and possibly updated nominations should be submitted. Please send a cover letter stating why your nominee should receive the award along with the nominee's resume by January 31, 2018 to:

Dr. Paul Dillon at PaulWDillon2@hotmail.com or 67 Matthes Road, Briarcliff Manor, NY 10510

or to:

Dr. Peter Corfield at pwrc@earthlink.com.

(continued on page 28)

Call for Applications

FREDDIE AND ADA BROWN AWARD

This Award recognizes and encourages high achieving middle- and high-school students, of African American and Native American heritage, to further develop their academic skills, with views on careers in the chemical sciences.

Award Amounts

Middle School \$100.00 Check and \$50.00 gift certificate : High School \$200.00 Check and \$100.00 gift certificate.

Who is Eligible

Middle School students enrolled in a science class : High School students who have completed a chemistry course

Grades

Middle School B Average or better in Science, B Average overall : High School B Average in Chemistry, B Average overall

Letter of Recommendation

Math or Science/Chemistry Teachers or Guidance Counselor

Statement

Middle School "Why I Like Science" : High School "Why I Like Chemistry"

Selection Criteria

Applicants must be African American (Black) or Native American (including Pacific Islander) or of mixed race.

Transcript

Official transcript required.

Financial Need

Not Required.

Applications available on the web:

www.njacs.org/freddieadabrown or from your school guidance office.

Return Application To

Freddie and Ada Brown Award, NJACS Section Office, 49 Pippens Way, Morristown, NJ 07960

Due Date

Completed Applications must be post-marked no later than March 31 Annually

Questions: Contact Jeannette Brown Jebrown@infionline.net or (908) 239-1515

Call for Applications

OPEN-NJ Scholarship Program Department of Chemistry and Biochemistry



MONTCLAIR STATE
UNIVERSITY

Receive one of the scholarships (\$10,000/year for 2 or 3 years) to enter one of the following programs at Montclair State University

- *Masters in Pharmaceutical Biochemistry*
- *Masters in Chemistry*
- *Masters in Chemistry with a Concentration in Biochemistry*

This program is open for the following majors: Biochemistry, Chemistry, Physics, Molecular Biology, Biology, Environmental Sciences, and related degrees (B.A., B.S.).

Summer Research Stipends available for highly qualified students.

Information: <https://www.montclair.edu/csam/open-nj/>

<https://www.montclair.edu/graduate/news/article.php?ArticleID=16127>

Requirements for Program

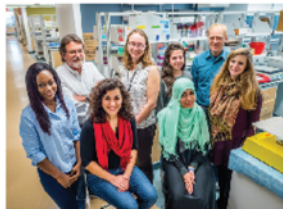
- Minimum overall 3.0 GPA (B.S. or B.A. degree)
- Completed General Chemistry I (with lab), General Chemistry II (with lab), Organic Chemistry I (with lab), Organic Chemistry II, Calculus I and II and a year of Physics.
- US citizen, national, admitted refugee or permanent resident
- Enrolling full time in an MSU Department of Chemistry and Biochemistry M.S. program
- Financial aid eligible as determined by the Office of Financial Aid.
- Committed to participating in all OPEN-NJ meetings including networking events.

Apply

Apply to the Graduate Program at Montclair State University (<http://www.montclair.edu/graduate/>) AND email Dr. Nina Goodey (goodeyn@mail.montclair.edu) to indicate interest in the OPEN-NJ Scholarship Program. The OPEN-NJ Selection Committee will use your graduate school application.

Questions?

Please, email Dr. Nina Goodey (goodeyn@mail.montclair.edu).



Call for Volunteers

OPPORTUNITY FOR ACS MEMBERS TO AID STUDENTS 2 SCIENCE IN A HYBRID VIRTUAL LAB PROGRAM

Can you spare a few hours of your time? Do you like working with students and would you like the opportunity to share your science knowledge in a classroom? Students 2Science (S2S) is seeking volunteers to support its V-Lab program. S2S has a series of elementary, middle, and high school experiments that run in various schools across New Jersey. Members are especially needed to mentor students in participating schools to help with experiments. It's great fun, a wonderful way to give back, and only requires 1-2 hours of your time. Experiments include CO₂ to the Rescue, Curious Crystals, Mystery of M&Ms, Thermochemistry: *Exothermic and Endothermic Chemical Reactions*, and *Glow it Up: The Chemistry of Luminol*. All are age-appropriate and volunteers are provided with instructions on how to support in the classroom

prior to your scheduled volunteer day.

For more information, contact Cyndi Roberson, Director of Corporate Relations, at (973) 947-4880 ext. 516 or visit the website to register for the upcoming school year: www.students2science.org.



SEMINAR SPEAKERS WANTED

The New York Section of the ACS is in search of speakers that we can add to our Speakers Bureau database of interested local area speakers who are available for Section-wide seminars and symposia. If you have an area of research or interest that would provide an interesting talk appropriate for our Section members, and would like to be included in our Speakers Bureau, please contact the New York Section Office at (516) 883-7510 or send an email to njesper1@optonline.net with the following information that will be posted on the Section's website: your name, affiliation, a title, and 5-6 words briefly summarizing your area of specialty. We look forward to hearing from you about topics that you wish to share with our other members!

ChemExpo 2017

Saturday, October 21, 2017

Call for Help

On Saturday October 21st, the North Jersey Section of ACS will be holding its 23rd ChemExpo in celebration of National Chemistry Week at Liberty Science Center, Jersey City, New Jersey. Please help us make a difference!

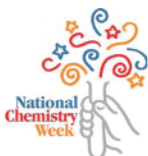
The theme for this year is "**Chemistry Rocks**". Join us to make this event a fun-filled day of hands-on science chemistry activities that will engage visitors in exploring the positive impacts of chemistry. The activities should be geared for 6 to 12 year olds.

Please register your group at <http://tiny.cc/NJACSchemeXpo>

To minimize duplication of the presentations, please register and provide a list of activities that you/your team would like to present preferably by September 15th, 2017. Individuals contacting us first with their idea(s) will be given priority. We would like the students to be able to redo these experiments at home and/or at school so please be thorough in your presentation and explanations.

Thanks very much for all of your help. The Section is most appreciative of your efforts.

Monica Sekharan - monicasekharan@njacs.org
Mita Chaki - mitachaki@gmail.com



ChemExpo 2017
Saturday, October 21, 2017
Call for Sponsorship

On Saturday October 21st, the North Jersey Section of ACS will be holding its 23rd ChemExpo in celebration of NCW (National Chemistry Week) at Liberty Science Center, Newark, New Jersey. Please help us make a difference! The theme for this year is "**Chemistry Rocks**".

We are looking forward to financial support to help cover many of the expenses associated with the Section's NCW activities. A donation of \$500.00 indicates Gold Sponsorship, a \$250.00 gift indicates Silver Sponsorship and a \$100.00 gift indicates a Bronze Sponsorship. We would appreciate it if you would forward this information to the appropriate representatives within your company.

Checks should be made out to:

"NJACS" (The North Jersey Section of American Chemical Society)
with a memo of "NCW".

Sent to:

Jacqueline Erickson
33 Ronald Road
Lake Hiawatha, NJ, 07034-1121.

Thanks very much for all of your help. The Section is most appreciative of your efforts.

Mita Chaki and Monica Sekharan

Please fill out the information below and return the form to Bobbi Gorman at rosellerams@yahoo.com.

Sponsorship Form

My company would like to support these efforts at the _____ (indicate gold, silver, or bronze) level.

Name of the Company:

The following company/individuals are willing to help defray the costs of these events:

An acknowledgement letter for this contribution should be sent to:
Name:

Email:

Full address:

Call for Nominations

(continued from page 24)

NY SECTION — SOCIETY FOR APPLIED SPECTROSCOPY

2018 GOLD MEDAL AWARD

Nominations are being sought for the 2018 Gold Medal Award of the New York Section

of the Society for Applied Spectroscopy. This coveted award was established in 1952 to recognize outstanding contributions to the field of Applied Spectroscopy. The Gold Medal will be presented at a special award symposium, arranged in honor of the awardee, at the 2018 Eastern Analytical Symposium. A nominating letter describing the nominee's specific accomplishments should be submitted along with a biographical sketch and list of publications by January 10th, 2018. Please email all materials to Kathrynalee@hotmail.com.

NY NANOCIENCE DISCUSSION GROUP

Nanofabrication by Self-Assembly: A Bottom-Up Approach to Material Design

Hosted by: Stefano Sacanna, NYU Assistant Professor of Chemistry

A Mini-Symposium featuring six speakers

Date: Friday, October 13, 2017

Times: 1:00-5:00 PM

Place: NYU Silver Center, Room TBA
31 Washington Place (between Washington Square East and Greene Street)

Please check the website for details:

<http://as.nyu.edu/chemistry.html>

For more information, contact: Julie Kaplan (julie.kaplan@nyu.edu)

The New York Nanoscience Discussion Group Session

Hosted by the New York University Department of Chemistry

Speakers to be announced.

The NYNDG is an ACS Topical Group that meets in the New York University Department of Chemistry. Sessions feature three 30-minute presentations on nanoscience, one each with strong orientation in biology, chemistry, and physics/applied mathematics. Presentations will be focused on discussion of recent work, although speakers will place the work in a context understandable to a broad audience.

Date: Tuesday, October 17, 2017

Times: Refreshments 7:00 PM
Science at 7:30 PM
Place: NYU Silver Center
Room 1003 (10th floor)
31 Washington Place (between Washington Square East and Greene Street)

For more information, contact: James W. Canary (james.canary@nyu.edu)

Topical Group History: <http://www.nyu.edu/projects/nanoscience>

FUTURE MEETINGS

DISTINGUISHED SEMINAR SERIES

Hosted by Michael D. Ward, NYU Silver Professor of Chemistry

"Crystal Design, Synthesis and Welding"

Speaker: Wais Hosseini
University of Strasbourg

Date: Friday, November 3, 2017

Time: 11:15 AM
Coffee and light breakfast fare preceding the seminar, from 10:30 AM

Place: NYU Silver Center
Room 1003 (10th floor)
31 Washington Place (between Washington Square East and Greene Street)

For more information, contact: Julie Kaplan (julie.kaplan@nyu.edu)

All these events are free and open to the public. RSVP to julie.kaplan@nyu.edu is requested but not necessary.



Rockefeller Center

Professional/Product Directory




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***Mass**

***Elemental Analysis**

NuMega Resonance Labs

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- www.mboservices.net
- <http://newyorkacs.org/jobs.html>
- <http://njacs.org/jobs.html>

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